

ANSWERS

Nuclear Chemistry Review Questions

1. Compare the mass, charge, and penetration power of alpha, beta and gamma radiation.

	Mass	Charge	Penetration
Alpha	4	+	Lowest
Beta	0	-	Middle
Gamma	0	0	Highest

2. In 5.49 seconds, 1.20g of argon-35 decays to leave only 0.15g. What is the half-life?

1.20g \rightarrow 0.60g \rightarrow 0.30g \rightarrow 0.15g, therefore it took 3 half-life periods.

$$5.49 \div 3 = 1.83 \text{ sec}$$

3. How many days does it take 16.0g of gold-198 to decay to 1.0g?

16.0g \rightarrow 8.0g \rightarrow 4.0g \rightarrow 2.0g \rightarrow 1.0g, therefore 4 half-life periods

From Ref Table N, 1 half-life = 2.69d

$$2.69\text{d} \times 4 = 10.76 \text{ days}$$

4. Why does an atom undergo radioactive decay?

Because it has an unstable nucleus

5. Compare and contrast fission and fusion. Why is fission used for electrical and fusion is not?

Fission=Division, the splitting of large unstable atoms(nucleus)

Fusion=joining together, small isotopes of H, creates way more energy

6. How is nuclear chemistry applied to medicine? What type of radioisotope must be used when it is injected into a person?

Radioisotopes are used to treat and diagnose illnesses

If injected they must have short half-lives and quickly removed from the body

7. Write out the nuclear decay of radium-226.



8. What is different about nuclear reactions when compared to a chemical reaction?

Nuclear reactions transform atoms into other atoms, chemical reactions involved the rearrangement of electrons

9. At what point do all isotopes of an element become radioactive?

Up to and including atomic # 83

Chapter 22 Review Nuclear Chemistry Answer Key

Ying Liu



Chapter 22 Review Nuclear Chemistry Answer Key:

General Chemistry Key Concise Review Guide Sixth Edition Darrell D. Ebbing, 1999 **DAT Prep Plus 2023-2024**
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but will also appeal to all those involved in planning and managing the Red Sea its environment its resources and the countries which rely on its existence [The American Mineralogist](#) ,2014 Vols 34 40 1949 55 include Contributions to Canadian mineralogy v 5 pts 1 7 [New Scientist](#) ,1983 [Title List of Documents Made Publicly Available](#) U.S. Nuclear Regulatory Commission,1991 *Bibliography of Reviews in Chemistry* , **New Scientist and Science Journal** ,1983-07

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